

CLAIMS

Please amend claims 1-16 as follows.

1. (Currently Amended) A ceiling structure (10) comprising a number of sheets (30) that span between parallel beams (14) mounted underneath a fixed ceiling (2), wherein the sheets (30) can, by elastic deformation, be taken from an initial configuration to a desired curved configuration, in which the sheets (30) are intended to form the visible ceiling face, and wherein the sheets (30) have a first expanse along the beams (14) and a transverse second expanse, wherein the sheets (30) along said first expanse have edge portions (50) configured for abutting on abutment areas (15) on the beams (14), characterised ~~in that~~ wherein the ceiling structure (10) also comprises force-transmitting means (22) that are configured for cooperating with portions (44) of the sheets (30), which portions are arranged between said edge portions (50), in order to provide, in combination with the abutment force of the sheets (30) against the abutment areas (15), the flexular moment necessary for maintaining the desired curved configuration of the sheets (30).

2. (Currently amended) A ceiling structure according to the preceding claim, ~~characterised in that~~ claim 1, wherein the transverse second expanse is larger than the distance between the beams (14).

3. (Currently amended) A ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 2, wherein the force-transmitting means (22) are arranged between the beams (14).

4. (Currently amended) A ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 3, wherein the force-transmitting means (22) are arranged essentially centrally between the beams (14) in order to cooperate with portions (44) of the sheets (30) located centrally between said edge portions (50).

5. (Currently amended) A ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 4, wherein the force-transmitting means (22) are configured as a part of the beams (14).

6. (Currently amended) A ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 5, wherein the sheets (30) assume an essentially planar initial configuration.

7. (Currently amended) A ceiling structure according to ~~any one of the preceding claims,~~
~~characterised in that~~ claim 6, wherein the sheets (30) form an upwardly arching face in the curved configuration, wherein said abutment faces (15) influence the sheets (30) by a downwardly oriented force, while the force-transmitting means (22) influence the sheets (30) by an upwardly oriented force.

8. (Currently amended) A ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 7, wherein a further system of parallel beams (20) is provided, said beams being mounted underneath said fixed ceiling (2) and comprising said force-transmitting means (22).

9. (Currently amended) A ceiling structure according to ~~the preceding claim,~~
~~characterised in that~~ claim 8, wherein the further system of parallel beams (20) extends perpendicular to said first-mentioned parallel beams (14) and are arranged above said abutment areas (15).

10. (Currently amended) A ceiling structure according to the preceding claim, ~~characterised in that~~ claim 9, wherein the distance between the beams (20) in the further system of parallel beams corresponds approximately to the first expanse of the sheets (30).

11. (Currently amended) A ceiling structure according to ~~any one of the preceding claims,~~
~~characterised in that~~ claim 10, wherein the portions (44) of the sheets (30) that are arranged between said edge portions (50) that cooperate with the force-transmitting means (22) are arranged at the end edges (34) of the sheets (30) that extend in said transverse second expanse.

12. (Currently amended) A ceiling structure according to ~~any one of the preceding claims,~~ ~~characterised in that~~ claim 11, wherein the portions (44) of the sheets (30) that are arranged between said edge portions (50) and cooperate with the force-transmitting means (22) are configured as hook-like devices.

13. (Currently amended) A ceiling structure according to the preceding claim, ~~characterised in that~~ claim 12, wherein the hook-like devices (44) are integral parts of the sheets (30).

14. (Currently amended) A ceiling structure according to ~~any one of the preceding claims,~~ ~~characterised in that~~ claim 13, wherein the portions (44) of the sheets (30) that are arranged between said edge portions (50) and cooperate with the force-transmitting means (22) are configured as through-going openings in the sheets (30).

15. (Currently amended) A ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 14, wherein the sheets (30), viewed in the initial configuration, comprises a centrally planar area (40) with planar edge portions (50), said edge portions (50) forming an angle relative to the central area (40).

16. (Currently amended) A method of mounting a ceiling structure according to ~~any one of the preceding claims, characterised in that~~ claim 15, wherein the edge portions (50) of the sheets (30) are first caused to abut on abutment areas (15) on the beams (14); that the desired curvature is subsequently imparted to the sheets (30); and that the sheets (30) are subsequently connected to said force-transmitting means (22).